

## WEST Search History

DATE: Tuesday, September 30, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L3	SERINE ADJ2 RACEMASE	29	L3
L2	SERINE RACEMASE	29	L2
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
L1	6458576	1	L1

END OF SEARCH HISTORY



**WEST**

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**Search Results - Record(s) 1 through 10 of 29 returned.**☐ 1. Document ID: US 20030175941 A1

L2: Entry 1 of 29

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175941

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030175941 A1

TITLE: Regulation of human serine racemase enzyme

PUBLICATION-DATE: September 18, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ramakrishnan, Shyam	Brighton	MA	US	

US-CL-CURRENT: 435/233; 435/320.1, 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw Desc	Image
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☐ 2. Document ID: US 20030166554 A1

L2: Entry 2 of 29

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166554

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166554 A1

TITLE: Treatment of CNS disorders using D-amino acid oxidase and D-aspartate oxidase antagonists

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Cohen, Daniel	Paris		FR	
Chumakov, Ilya	Vaux-le-Penil		FR	

US-CL-CURRENT: 514/12; 424/9.2, 514/227.5, 514/231.5, 514/253.01, 514/340, 514/357, 514/89, 800/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw Desc	Image
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☐ 3. Document ID: US 20030162825 A1

L2: Entry 3 of 29

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030162825



PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030162825 A1

TITLE: D-amino acid oxidase inhibitors for learning and memory

PUBLICATION-DATE: August 28, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Heefner, Donald L.	Hudson	MA	US	
Currie, Mark G.	Sterling	MA	US	
Rossi, Richard Filip JR.	Norton	MA	US	
Zepp, Charles M.	Hardwick	MA	US	

US-CL-CURRENT: 514/419; 514/290, 514/423, 514/461

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20030096379 A1

L2: Entry 4 of 29

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096379

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096379 A1

TITLE: Method for producing tryptamine derivatives

PUBLICATION-DATE: May 22, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kilgore, James L.	Long Beach	CA	US	
Rozzell, J. David JR.	Burbank	CA	US	

US-CL-CURRENT: 435/108; 435/121

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC	Draw Desc	Image
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☐ 5. Document ID: US 20030064439 A1

L2: Entry 5 of 29

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030064439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064439 A1

TITLE: Novel nucleic acid sequences encoding melanoma associated antigen molecules, aminotransferase molecules, ATPase molecules, acyltransferase molecules, pyridoxal-phosphate dependant enzyme molecules and uses therefor

PUBLICATION-DATE: April 3, 2003

## INVENTOR-INFORMATION:



NAME	CITY	STATE	COUNTRY	RULE-47
Bandaru, Rajasekhar	Watertown	MA	US	
Glucksmann, Maria Alexandra	Lexington	MA	US	
Meyers, Rachel E.	Newton	MA	US	
Rudolph-Owen, Laura A.	Jamaica Plain	MA	US	

US-CL-CURRENT: 435/69.1; 435/193, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWD	Draw Desc	Image
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☐ 6. Document ID: US 20020115137 A1

L2: Entry 6 of 29

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115137  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020115137 A1

TITLE: 22406, a novel human pyridoxal-phosphate dependent enzyme family member and uses therefor

PUBLICATION-DATE: August 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meyers, Rachel A.	Newton	MA	US	
Rudolph-Owen, Laura A.	Jamaica Plain	MA	US	

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWD	Draw Desc	Image
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☐ 7. Document ID: US 6551993 B1

L2: Entry 7 of 29

File: USPT

Apr 22, 2003

US-PAT-NO: 6551993  
DOCUMENT-IDENTIFIER: US 6551993 B1

TITLE: Partial agonists at the glycine modulatory site of the NMDA receptor for treating cognitive dysfunction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWD	Draw Desc	Image
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☐ 8. Document ID: US 6458576 B1

L2: Entry 8 of 29

File: USPT

Oct 1, 2002

US-PAT-NO: 6458576  
DOCUMENT-IDENTIFIER: US 6458576 B1

TITLE: 22406, a novel human pyridoxal-phosphate dependent enzyme family member and uses therefor



Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMAC	Draw Desc	Image
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☐ 9. Document ID: US 4335209 A

L2: Entry 9 of 29

File: USPT

Jun 15, 1982

US-PAT-NO: 4335209

DOCUMENT-IDENTIFIER: US 4335209 A

TITLE: Process for preparation of L-tryptophan by enzyme

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMAC	Draw Desc	Image
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☐ 10. Document ID: JP 03266992 A

L2: Entry 10 of 29

File: JPAB

Nov 27, 1991

PUB-NO: JP403266992A

DOCUMENT-IDENTIFIER: JP 03266992 A

TITLE: PRODUCTION OF L-TYROSINE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMAC	Draw Desc	Image
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Terms	Documents
SERINE RACEMASE	29

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[Previous Page](#)[Next Page](#)



**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 20 of 29 returned.**☐ 11. Document ID: JP 60176594 A

L2: Entry 11 of 29

File: JPAB

Sep 10, 1985

PUB-NO: JP360176594A

DOCUMENT-IDENTIFIER: JP 60176594 A

TITLE: PREPARATION OF L-TRYPTOPHAN

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KOMC	Draw Desc	Image
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☐ 12. Document ID: JP 60168392 A

L2: Entry 12 of 29

File: JPAB

Aug 31, 1985

PUB-NO: JP360168392A

DOCUMENT-IDENTIFIER: JP 60168392 A

TITLE: RACEMIZATION OF SERINE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KOMC	Draw Desc	Image
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☐ 13. Document ID: JP 58129975 A

L2: Entry 13 of 29

File: JPAB

Aug 3, 1983

PUB-NO: JP358129975A

DOCUMENT-IDENTIFIER: JP 58129975 A

TITLE: METHOD FOR SUPPRESSING ACTIVITY OF SERINE DECOMPOSITION ENZYME IN BACTERIAL CELL

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KOMC	Draw Desc	Image
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☐ 14. Document ID: JP 58020187 A

L2: Entry 14 of 29

File: JPAB

Feb 5, 1983

PUB-NO: JP358020187A

DOCUMENT-IDENTIFIER: JP 58020187 A

TITLE: CULTIVATING METHOD FOR MICROORGANISM CAPABLE OF PRODUCING SERINE PACEMASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KOMC	Draw Desc	Image
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☐ 15. Document ID: JP 58016677 A

L2: Entry 15 of 29

File: JPAB

Jan 31, 1983



PUB-NO: JP358016677A  
DOCUMENT-IDENTIFIER: JP 58016677 A  
TITLE: STORAGE OF SERINE-RACEMASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 16. Document ID: EP 1272656 A1 WO 200175144 A1

L2: Entry 16 of 29

File: DWPI

Jan 8, 2003

DERWENT-ACC-NO: 2001-656991  
DERWENT-WEEK: 200311  
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TITLE: New recombinant serine racemase polypeptide, useful in assays for identifying compounds that alter enzyme activity (e.g. including compounds that inhibit or stimulate enzyme activity) or in generating antibodies against the protein

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 17. Document ID: EP 1272646 A2 WO 200173077 A2 AU 200150408 A

L2: Entry 17 of 29

File: DWPI

Jan 8, 2003

DERWENT-ACC-NO: 2001-648444  
DERWENT-WEEK: 200311  
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TITLE: Polynucleotide encoding serine racemase enzyme and the enzyme useful for screening reagents regulating the activity of the enzyme in a neuron disease caused by over- or under-activation of glutamate N-methyl-D-aspartate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 18. Document ID: WO 200160987 A1 AU 200141583 A US 20020115137 A1 US 6458576 B1

L2: Entry 18 of 29

File: DWPI

Aug 23, 2001

DERWENT-ACC-NO: 2001-529909  
DERWENT-WEEK: 200359  
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TITLE: Novel polypeptide of the human pyridoxal phosphate dependent family useful in screening and detection assays and for treatment, e.g. of epilepsy and Alzheimer's

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 19. Document ID: JP 2002534984 W WO 200043526 A1 AU 200024135 A NO 200103557 A EP 1147203 A1 BR 200007592 A KR 2001103740 A HU 200105035 A2

L2: Entry 19 of 29

File: DWPI

Oct 22, 2002

DERWENT-ACC-NO: 2000-482915



DERWENT-WEEK: 200301  
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TITLE: Mammalian serine racemase preparations, used to identify modulators which can be used to treat diseases associated with N-methyl-D-aspartate receptor overactivation, e.g. Alzheimer's disease

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 20. Document ID: JP 03266992 A

L2: Entry 20 of 29

File: DWPI

Nov 27, 1991

DERWENT-ACC-NO: 1992-019329  
DERWENT-WEEK: 199203  
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TITLE: High yield L-tyrosine prepn. for thyroid stimulator - from phenol and D-serine in presence of bacteria body contg. beta-tyrosinase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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SERINE RACEMASE	29

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[Previous Page](#)

[Next Page](#)



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L2: Entry 21 of 29

File: DWPI

Sep 10, 1985

DERWENT-ACC-NO: 1985-261183

DERWENT-WEEK: 198542

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TITLE: L-Tryptophan prepn. - by reacting indole and DL-serine in presence of  
tryptophan synthetase or tryptophanase and racemase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**22. Document ID: JP 60168392 A**

L2: Entry 22 of 29

File: DWPI

Aug 31, 1985

DERWENT-ACC-NO: 1985-253421

DERWENT-WEEK: 198541

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TITLE: Racemisation of serine - in presence of enzyme catalyst formed by treating  
serine racemase-contg. bacteria

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**23. Document ID: JP 59045897 A JP 92035157 B**

L2: Entry 23 of 29

File: DWPI

Mar 14, 1984

DERWENT-ACC-NO: 1984-103774

DERWENT-WEEK: 198417

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TITLE: Sepn. of L-tryptophan from microorganism-contg. culture liq. - by adjusting  
pH, heating, treating with alkali and sepg. e.g. by filtration

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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**24. Document ID: JP 59011187 A AU 8322801 A CA 1207689 A CH 659824 A DE  
3347617 A DE 3347617 C FR 2557590 A GB 2151634 A GB 2151634 B IT 1170100 B JP  
95024587 B2 KR 8701150 B NL 8304495 A**

L2: Entry 24 of 29

File: DWPI

Jan 20, 1984

DERWENT-ACC-NO: 1984-052599

DERWENT-WEEK: 198409



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TITLE: Enzymic reactions where substrate(s) deteriorate activity - effected in water-immiscible substrate-miscible organic solvent to keep substrate concn. low

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 25. Document ID: JP 58129975 A JP 89043554 B

L2: Entry 25 of 29

File: DWPI

Aug 3, 1983

DERWENT-ACC-NO: 1983-760891

DERWENT-WEEK: 198337

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TITLE: Inhibiting serine decomposing enzymes in microorganisms - e.g. Pseudomonas putida or Aromas punctata contg. serine racemase, by heating bacterial body at 40-60 degrees C

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 26. Document ID: JP 58020187 A JP 86042556 B

L2: Entry 26 of 29

File: DWPI

Feb 5, 1983

DERWENT-ACC-NO: 1983-26307K

DERWENT-WEEK: 198311

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TITLE: Incubating serine racemase producing mutants - includes continuously or intermittently adding glucose to medium to maintain concn. of up to one per cent

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 27. Document ID: JP 58016677 A JP 86042554 B

L2: Entry 27 of 29

File: DWPI

Jan 31, 1983

DERWENT-ACC-NO: 1983-24046K

DERWENT-WEEK: 198310

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TITLE: Serine racemase preservation - by suspending Pseudomonas putida or aeromonas punctata caviae contg. the racemase in aq. pyridoxal phosphate soln. and freezing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 28. Document ID: JP 57083288 A JP 87062157 B

L2: Entry 28 of 29

File: DWPI

May 25, 1982

DERWENT-ACC-NO: 1982-53912E

DERWENT-WEEK: 198226

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TITLE: 5-Hydroxy:tryptophan prodn. from 5-hydroxy:indole - and DL-serine, where a serine racemase is added to (I) convert some D-serine to the L form

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FORM	Draw Desc	Image
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29. Document ID: NL 8002603 A CA 1128443 A CH 642947 A DE 3017861 A DE 3017861 C FR 2456140 A GB 2048266 A GB 2048266 B IT 1145337 B JP 55148095 A JP 56005098 A JP 56134992 A JP 82031438 B JP 86000070 B US 4335209 A

L2: Entry 29 of 29

File: DWPI

Nov 11, 1980

DERWENT-ACC-NO: 1980-85628C

DERWENT-WEEK: 198048

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TITLE: L-Tryptophan prodn. from D.L- or D-serine - by enzymatic racemisation and reaction with indole

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FORM	Draw Desc	Image
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[Next Page](#)



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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 Jul 15 Data from 1960-1976 added to RDISCLOSURE  
NEWS 5 Jul 21 Identification of STN records implemented  
NEWS 6 Jul 21 Polymer class term count added to REGISTRY  
NEWS 7 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and  
Right Truncation available  
NEWS 8 AUG 05 New pricing for EUROPATFULL and PCTFULL effective  
August 1, 2003  
NEWS 9 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 10 AUG 15 PATDPAFULL: one FREE connect hour, per account, in  
September 2003  
NEWS 11 AUG 15 PCTGEN: one FREE connect hour, per account, in  
September 2003  
NEWS 12 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in  
September 2003  
NEWS 13 AUG 15 TEMA: one FREE connect hour, per account, in  
September 2003  
NEWS 14 AUG 18 Data available for download as a PDF in RDISCLOSURE  
NEWS 15 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 16 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 17 AUG 18 Simultaneous left and right truncation added to ANABSTR  
NEWS 18 SEP 22 DIPPR file reloaded  
NEWS 19 SEP 25 INPADOC: Legal Status data to be reloaded  
NEWS 20 SEP 29 DISSABS now available on STN  
  
NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
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FULL ESTIMATED COST

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=> s serine (2w) racemase

L1 312 SERINE (2W) RACEMASE

=> s l1 and (mammal? or rat or mouse or murine or human)

5 FILES SEARCHED...

10 FILES SEARCHED...

L2 154 L1 AND (MAMMAL? OR RAT OR MOUSE OR MURINE OR HUMAN)

=> s l2 and (dna or nucle? or recombinant or gene?)

3 FILES SEARCHED...

6 FILES SEARCHED...

9 FILES SEARCHED...

L3 81 L2 AND (DNA OR NUCLE? OR RECOMBINANT OR GENE?)

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 29 DUP REM L3 (52 DUPLICATES REMOVED)

=> d 1-10

L4 ANSWER 1 OF 29 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

AN 2003219534 EMBASE

TI Schizophrenia: Attention deficits and the NMDA hypothesis.

AU Lane H.-Y.; Lu T.-T.; Chang W.-H.

CS W.-H. Chang, Department of Psychiatry, Tzu Chi University, Chung Yang  
Road, Hualien, Taiwan, Province of China



SO Tzu Chi Medical Journal, 03) 15/3 (141-148).  
 Refs: 93  
 ISSN: 1016-3190 CODEN: CYZAFG  
 CY Taiwan, Province of China  
 DT Journal; General Review  
 FS 005 General Pathology and Pathological Anatomy  
 032 Psychiatry  
 037 Drug Literature Index  
 038 Adverse Reactions Titles  
 LA English  
 SL English; Chinese

L4 ANSWER 2 OF 29 MEDLINE on STN DUPLICATE 1  
 AN 2003408324 IN-PROCESS  
 DN 22828009 PubMed ID: 12946565  
 TI **Rat cerebral serine racemase**: amino acid  
 deletion and truncation at carboxy terminus.  
 AU Konno Ryuichi  
 CS Department of Microbiology, Dokkyo University School of Medicine, Mibu,  
 321-0293 Tochigi, Japan.. konno@dokkyomed.ac.jp  
 SO NEUROSCIENCE LETTERS, (2003 Oct 2) 349 (2) 111-4.  
 Journal code: 7600130. ISSN: 0304-3940.  
 CY Ireland  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS IN-PROCESS; NONINDEXED; Priority Journals  
 ED Entered STN: 20030830  
 Last Updated on STN: 20030924

L4 ANSWER 3 OF 29 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.  
 on STN DUPLICATE 2  
 AN 2003365362 EMBASE  
 TI Amino acid racemases: Functions and mechanisms.  
 AU Yoshimura T.; Esaki N.  
 CS N. Esaki, Laboratory of Microbial Biochemistry, Institute for Chemical  
 Research, Kyoto University, Uji, Kyoto 611-0011, Japan.  
 esaki@scl.kyoto-u.ac.jp  
 SO Journal of Bioscience and Bioengineering, (2003) 96/2 (103-109).  
 Refs: 51  
 ISSN: 1389-1723 CODEN: JBBIF6  
 CY Japan  
 DT Journal; General Review  
 FS 004 Microbiology  
 LA English  
 SL English

L4 ANSWER 4 OF 29 MEDLINE on STN DUPLICATE 3  
 AN 2003059525 MEDLINE  
 DN 22448613 PubMed ID: 12560076  
 TI **Mouse brain serine racemase** catalyzes  
 specific elimination of L-serine to pyruvate.  
 AU Strisovsky Kvido; Jiraskova Jana; Barinka Cyril; Majer Pavel; Rojas  
 Camilo; Slusher Barbara S; Konvalinka Jan  
 CS Institute of Organic Chemistry and Biochemistry, Academy of Sciences of  
 the Czech Republic, Flemingovo n.2, Praha 6, 166 10, Czech Republic..  
 kvido.strisovsky@uochb.cas.cz  
 SO FEBS LETTERS, (2003 Jan 30) 535 (1-3) 44-8.  
 Journal code: 0155157. ISSN: 0014-5793.  
 CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200303  
 ED Entered STN: 20030207  
 Last Updated on STN: 20030322  
 Entered Medline: 20030321

L4 ANSWER 5 OF 29 MEDLINE on STN DUPLICATE 4



AN 2002407792 MEDLINE  
 DN 22140326 PubMed ID: 12021263  
 TI Direct calcium binding results in activation of brain **serine racemase**.  
 AU Cook Silas P; Galve-Roperh Ismael; Martinez del Pozo Alvaro; Rodriguez-Crespo Ignacio  
 CS Departamento de Bioquimica y Biologia Molecular, Fac. CC. Quimicas, Universidad Complutense de Madrid, Madrid 28040, Spain.  
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Aug 2) 277 (31) 27782-92.  
 Journal code: 2985121R. ISSN: 0021-9258.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200209  
 ED Entered STN: 20020807  
 Last Updated on STN: 20030105  
 Entered Medline: 20020916

L4 ANSWER 6 OF 29 MEDLINE on STN DUPLICATE 5  
 AN 2002647931 MEDLINE  
 DN 22295060 PubMed ID: 12393813  
 TI Cofactors of **serine racemase** that physiologically stimulate the synthesis of the N-methyl-D-aspartate (NMDA) receptor coagonist D-serine.  
 AU De Miranda Joari; Panizzutti Rogerio; Foltyn Veronika N; Wolosker Herman  
 CS Department of Biochemistry, Federal University of Rio de Janeiro, Rio de Janeiro RJ 21941-590, Brazil.  
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (2002 Oct 29) 99 (22) 14542-7.  
 Journal code: 7505876. ISSN: 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200212  
 ED Entered STN: 20021031  
 Last Updated on STN: 20030105  
 Entered Medline: 20021209

L4 ANSWER 7 OF 29 MEDLINE on STN  
 AN 2002666081 MEDLINE  
 DN 22313449 PubMed ID: 12426332  
 TI vanE **gene** cluster of vancomycin-resistant *Enterococcus faecalis* BM4405.  
 AU Abadia Patino Lorena; Courvalin Patrice; Perichon Bruno  
 CS Unite des Agents Antibacteriens, Institut Pasteur, 75724 Paris Cedex 15, France.  
 SO JOURNAL OF BACTERIOLOGY, (2002 Dec) 184 (23) 6457-64.  
 Journal code: 2985120R. ISSN: 0021-9193.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200301  
 ED Entered STN: 20021113  
 Last Updated on STN: 20030304  
 Entered Medline: 20030107

L4 ANSWER 8 OF 29 MEDLINE on STN DUPLICATE 6  
 AN 2003085161 MEDLINE  
 DN 22484583 PubMed ID: 12596860  
 TI **Gene** cloning, purification, and characterization of 2,3-diaminopropionate ammonia-lyase from *Escherichia coli*.  
 AU Uo Takuma; Yoshimura Tohru; Nishiyama Tozo; Esaki Nobuyoshi  
 CS Institute for Chemical Research, Kyoto University, Uji, Kyoto 611-0011, Japan.  
 SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2002 Dec) 66 (12) 2639-44.



Journal code: 9205717. IS 0916-8451.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200308  
ED Entered STN: 20030225  
Last Updated on STN: 20030813  
Entered Medline: 20030812

L4 ANSWER 9 OF 29 MEDLINE on STN DUPLICATE 7  
AN 2003008845 MEDLINE  
DN 22403068 PubMed ID: 12515328  
TI Allosteric regulation of **mouse** brain **serine**  
**racemase**.  
AU Neidle Amos; Dunlop David S  
CS Division of Neurochemistry, Nathan Kline Institute for Psychiatric  
Research, Orangeburg, New York 10962, USA.  
SO NEUROCHEMICAL RESEARCH, (2002 Dec) 27 (12) 1719-24.  
Journal code: 7613461. ISSN: 0364-3190.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200303  
ED Entered STN: 20030108  
Last Updated on STN: 20030326  
Entered Medline: 20030325

L4 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:101459 HCAPLUS  
TI Astroglial expression of D-amino acid oxidase **gene**  
AU Suzue, A.; Nagahiro, S.; Urai, Y.; Jinnouchi, O.; Kanamori, T.; Kwak, K.  
T.; Park, H. K.; Kawazoe, T.; Ichise, S.; Shishido, Y.; Tomita, Y.; Sakai,  
T.; Fukui, K.  
CS Department of Neurosurgery, School of Medicine, The University of  
Tokushima, Japan  
SO Flavins and Flavoproteins 2002, Proceedings of the International  
Symposium, 14th, Cambridge, United Kingdom, July 14-18, 2002 (2002),  
853-856. Editor(s): Chapman, Stephen K.; Perham, Richard N.; Scrutton,  
Nigel S. Publisher: Rudolf Weber, Agency for Scientific Publications,  
Berlin, Germany.  
CODEN: 69DPFY; ISBN: 3-00-010229-9  
DT Conference  
LA English  
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11-20

L4 ANSWER 11 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:3096 BIOSIS  
DN PREV200300003096  
TI **PICK1**, a **gene** on chromosome 22q13: A putative regulator of  
**serine racemase** and D-serine.  
AU Fujii, K. (1); Xia, J. (1); Dulloor, P. (1); Ozeki, Y. (1); Yamada, N.;  
Ohkawa, M.; Ross, C. A. (1); Snyder, S. H. (1); Huganir, R. L. (1);  
Pulver, A. E. (1); Sawa, A. (1)  
CS (1) Department of Psychiatry and Neuroscience, Johns Hopkins University  
School of Medicine, Baltimore, MD, USA USA  
SO American Journal of Medical Genetics, (October 8 2002) Vol. 114, No. 7,  
pp. 849. print.  
Meeting Info.: Xth World Congress of Psychiatric Genetics Brussels,  
Belgium October 09-13, 2002 International Society of Psychiatric Genetics  
. ISSN: 0148-7299.  
DT Conference  
LA English



L4 ANSWER 12 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:624933 BIOSIS  
DN PREV200200624933  
TI PICK1, a **gene** on chromosome 22q13: A putative regulator of  
**serine racemase** and D-serine.  
AU Fujii, K. (1); Xia, J. (1); Dulloor, P. (1); Ozeki, Y. (1); Yamada, N.;  
Ohkawa, M.; Ross, C. A. (1); Snyder, S. H. (1); Haganir, R. L. (1);  
Pulver, A. E. (1); Sawa, A. (1)  
CS (1) Depts. of Psychiatry and Neuroscience, Johns Hopkins Univ. Sch. of  
Med., Baltimore, MD USA  
SO American Journal of Human Genetics, (October, 2002) Vol. 71, No. 4  
Supplement, pp. 468. <http://www.journals.uchicago.edu/AJHG/home.html>.  
print.  
Meeting Info.: 52nd Annual Meeting of the American Society of Human  
Genetics Baltimore, MD, USA October 15-19, 2002 American Society of Human  
Genetics  
. ISSN: 0002-9297.  
DT Conference  
LA English

L4 ANSWER 13 OF 29 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.  
on STN  
AN 2002189463 ESBIIOBASE  
TI Neurobiology through the looking-glass: D-serine as a new glial-derived  
transmitter  
AU Wolosker H.; Panizzutti R.; Miranda J.D.  
CS H. Wolosker, Department of Biochemistry, B. Rappaport Faculty of  
Medicine, Technion-Israel Inst. of Technology, P.O. Box 9649, Bat Galim,  
Haifa 31096, Israel.  
E-mail: [hwolosker@tx.technion.ac.il](mailto:hwolosker@tx.technion.ac.il)  
SO Neurochemistry International, (2002), 41/5 (327-332), 52 reference(s)  
CODEN: NEUIDS ISSN: 0197-0186  
PUI S0197018602000554  
DT Journal; Article  
CY United Kingdom  
LA English  
SL English

L4 ANSWER 14 OF 29 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.  
on STN  
AN 2002259738 ESBIIOBASE  
TI Effect of the intracerebroventricular and systemic administration of  
L-serine on the concentrations of D- and L-serine in several brain areas  
and periphery of **rat**  
AU Hashimoto A.  
CS A. Hashimoto, Department of Pharmacology, School of Medicine, Tokai  
University, Isehara, Kanagawa 259-1193, Japan.  
E-mail: [hashimot@is.icc.u-tokai.ac.jp](mailto:hashimot@is.icc.u-tokai.ac.jp)  
SO Brain Research, (15 NOV 2002), 955/1-2 (214-220), 33 reference(s)  
CODEN: BRREAP ISSN: 0006-8993  
PUI S0006899302034662  
DT Journal; Article  
CY Netherlands  
LA English  
SL English

L4 ANSWER 15 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:142669 BIOSIS  
DN PREV200300142669  
TI The role of D-serine in Modulating the Sensitivity of NMDA Receptors in  
the Vertebrate Retina.  
AU Miller, R. F. (1); Zahs, K. R.; Newman, E. A. (1); Stevens, E. R. (1);  
Fagerson, M. H. (1); Kim, P.; Snyder, S. H.  
CS (1) Neuroscience, University of Minnesota, Minneapolis, MN, USA USA  
SO ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002,  
pp. Abstract No. 893. cd-rom.  
Meeting Info.: Annual Meeting of the Association For Research in Vision



DT Conference  
LA English

L4 ANSWER 16 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:380334 BIOSIS  
DN PREV200300380334

TI **SERINE RACEMASE** IS LOCALIZED TO TERMINALS OF BIPOLAR  
CELLS IN **MAMMALIAN** RETINA.

AU Stella, S. L. (1); Hirano, A. A. (1); Cueva, J. G. (1); Vila, A. (1);  
Brecha, N. C. (1)

CS (1) Neurobiology, Medicine, Jules Stein Eye Institute, University of  
California and comma {a} Neurobiology, Medicine, Jules Stein Eye  
Institute, University of California and comma USA

SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002)  
Vol. 2002, pp. Abstract No. 843.7. <http://sfn.scholarone.com>. cd-rom.  
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience  
Orlando, Florida, USA November 02-07, 2002 Society for Neuroscience

DT Conference  
LA English

L4 ANSWER 17 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:380162 BIOSIS  
DN PREV200300380162

TI SYNTHESIS OF THE NEUROMODULATOR D - SERINE IS LINKED TO THE ENERGY  
METABOLISM.

AU De Miranda, J. (1); Panizzutti, R. (1); Foltyn, V.; Wolosker, H.

CS (1) Biochemistry, Fed Univ Rio de Jan, Rio de Janeiro, Brazil Brazil

SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002)  
Vol. 2002, pp. Abstract No. 829.7. <http://sfn.scholarone.com>. cd-rom.  
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience  
Orlando, Florida, USA November 02-07, 2002 Society for Neuroscience

DT Conference  
LA English

L4 ANSWER 18 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2003:325900 BIOSIS  
DN PREV200300325900

TI PICK1: A PUTATIVE REGULATOR OF **SERINE RACEMASE** AND ITS  
POSSIBLE INVOLVEMENT IN THE PATHOGENESIS OF SCHIZOPHRENIA.

AU Fujii, K. (1); Ozeki, Y. (1); Xia, J. (1); Dulloor, P. (1); Yamada, N.;  
Ohkawa, M.; Ross, C. A. (1); Snyder, S. H. (1); Pulver, A. E. (1);  
Huganir, R. L. (1); Sawa, A. (1)

CS (1) Psychiat and Neurosci, Johns Hopkins Univ.Sch.of Med., Baltimore, MD,  
USA USA

SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002)  
Vol. 2002, pp. Abstract No. 706.14. <http://sfn.scholarone.com>. cd-rom.  
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience  
Orlando, Florida, USA November 02-07, 2002 Society for Neuroscience

DT Conference  
LA English

L4 ANSWER 19 OF 29 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN  
AN 2002-00344 BIOTECHDS

TI Novel polypeptide of the **human** pyrodoxal phosphate dependent  
family useful in screening and detecting assays and for treatment, e.g.  
of epilepsy and Alzheimer's;  
vector expression in host cell for **recombinant** protein  
**gene** production useful in **gene** therapy and drug  
screening

AU Meyers R A; Rudolph-Owen L A

PA Millennium-Pharm.

LO Cambridge, MA, USA.

PI WO 2001060987 23 Aug 2001

AI WO 2001-US5365 20 Feb 2001



PRAI US 2000-183208 17 Feb 20  
DT Patent  
LA English  
OS WPI: 2001-529909 [58]

L4 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 9  
AN 2001:748034 HCAPLUS  
DN 135:300497  
TI Cloning, sequence and drug screening use of **human serine  
racemase**  
IN Connolly, Thomas; Liu, Yuan; Xia, Menghang  
PA Merck & Co., Inc., USA  
SO PCT Int. Appl., 43 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001075144	A1	20011011	WO 2001-US10662	20010402
	W: CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1272656	A1	20030108	EP 2001-924599	20010402
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				

PRAI US 2000-194451P P 20000404  
WO 2001-US10662 W 20010402

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 21-29

L4 ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:731044 HCAPLUS  
DN 135:284084  
TI Cloning, sequencing and regulation of **human serine  
racemase**  
IN Ramakrishnan, Shyam  
PA Bayer Aktiengesellschaft, Germany  
SO PCT Int. Appl., 66 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001073077	A2	20011004	WO 2001-EP3668	20010330
	WO 2001073077	A3	20021003		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1272646	A2	20030108	EP 2001-923705	20010330
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003175941	A1	20030918	US 2003-240466	20030512
PRAI	US 2000-193748P	P	20000331		
	US 2000-194249P	P	20000403		
	WO 2001-EP3668	W	20010330		

L4 ANSWER 22 OF 29 MEDLINE on STN

DUPLICATE 10



AN 2001231631 MEDLINE  
 DN 21221118 PubMed ID: 11305496  
 TI A new strategy to decrease N-methyl-D-aspartate (NMDA) receptor  
 coactivation: inhibition of D-serine synthesis by converting  
**serine racemase** into an eliminase.  
 AU Panizzutti R; De Miranda J; Ribeiro C S; Engelender S; Wolosker H  
 CS Departamento de Bioquimica Medica, Instituto de Ciencias Biomedicas, and  
 Center for Neurodegenerative Diseases, Departamento de Anatomia,  
 Universidade Federal do Rio de Janeiro, Rio de Janeiro, RJ 21491-590,  
 Brazil.  
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
 AMERICA, (2001 Apr 24) 98 (9) 5294-9.  
 Journal code: 7505876. ISSN: 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200105  
 ED Entered STN: 20010529  
 Last Updated on STN: 20030105  
 Entered Medline: 20010521

L4 ANSWER 23 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 2001:547491 BIOSIS  
 DN PREV200100547491  
 TI Potential role of D-serine in Alzheimer's disease.  
 AU Barger, S. W. (1); Wu, S.; Lucas, M. M. (1); Basile, A. S.  
 CS (1) Geriatrics, Univ Arkansas Med Sci, Little Rock, AR USA  
 SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 1452.  
 print.  
 Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San  
 Diego, California, USA November 10-15, 2001  
 ISSN: 0190-5295.  
 DT Conference  
 LA English  
 SL English

L4 ANSWER 24 OF 29 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 2001:558906 BIOSIS  
 DN PREV200100558906  
 TI PICK1: A **serine racemase** interactor, which is located  
 on chromosome 22Q11-13.  
 AU Fujii, K. (1); Ozeki, Y. (1); Kamiya, A. (1); Otsuki, H. (1); Yamada, N.  
 (1); Ohkawa, M. (1); Sawa, A.  
 CS (1) Psychiatry, Shiga Univ. of Med. Sci., Otsu, Shiga Japan  
 SO American Journal of Human Genetics, (October, 2001) Vol. 69, No. 4  
 Supplement, pp. 547. print.  
 Meeting Info.: 51st Annual Meeting of the American Society of Human  
 Genetics San Diego, California, USA October 12-16, 2001  
 ISSN: 0002-9297.  
 DT Conference  
 LA English  
 SL English

L4 ANSWER 25 OF 29 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN  
 AN 2000-12656 BIOTECHDS  
 TI **Mammalian serine-racemase** preparations,  
 used to identify modulators which can be used to treat diseases  
 associated with N-methyl-D-aspartate receptor overactivation, e.g.  
 Alzheimer's disease;  
 vector-mediated **gene** transfer and expression in host cell  
 AU Snyder S H; Wolosker H; Sheth K; Masaaki T; Mothet J P; Brady Jr R O;  
 Ferris C D  
 PA Univ. Johns-Hopkins  
 LO Baltimore, MD, USA.  
 PI WO 2000043526 27 Jul 2000  
 AI WO 2000-US938 18 Jan 2000  
 PRAI US 1999-145953 28 Jul 1999; US 1999-116333 19 Jan 1999



DT Patent  
LA English  
OS WPI: 2000-482915 [42]

L4 ANSWER 26 OF 29 MEDLINE on STN DUPLICATE 12  
AN 2001076984 MEDLINE  
DN 20510003 PubMed ID: 11054547  
TI **Human serine racemase**: molecular cloning,  
genomic organization and functional analysis.  
AU De Miranda J; Santoro A; Engelender S; Wolosker H  
CS Departamento de Bioquimica Medica, Instituto de Ciencias Biomedicas, RJ  
21491-590, Rio de Janeiro, Brazil.  
SO GENE, (2000 Oct 3) 256 (1-2) 183-8.  
Journal code: 7706761. ISSN: 0378-1119.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF169974  
EM 200101  
ED Entered STN: 20010322  
Last Updated on STN: 20010322  
Entered Medline: 20010111

L4 ANSWER 27 OF 29 MEDLINE on STN  
AN 2000046197 MEDLINE  
DN 20046197 PubMed ID: 10610528  
TI Key brain receptor gets an unusual regulator.  
AU Wickelgren I  
SO SCIENCE, (1999 Nov 12) 286 (5443) 1265-6.  
Journal code: 0404511. ISSN: 0036-8075.  
CY United States  
DT News Announcement  
LA English  
FS Priority Journals  
EM 199911  
ED Entered STN: 20000113  
Last Updated on STN: 20000113  
Entered Medline: 19991130

L4 ANSWER 28 OF 29 MEDLINE on STN DUPLICATE 13  
AN 2000027561 MEDLINE  
DN 20027561 PubMed ID: 10557334  
TI **Serine racemase**: a glial enzyme synthesizing D-serine  
to regulate glutamate-N-methyl-D-aspartate neurotransmission.  
AU Wolosker H; Blackshaw S; Snyder S H  
CS Departments of Neuroscience, The Johns Hopkins University, School of  
Medicine, 725 North Wolfe Street, Baltimore, MD 21205, USA.  
NC DA-00074 (NIDA)  
MH 18501 (NIMH)  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (1999 Nov 9) 96 (23) 13409-14.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF148321  
EM 199912  
ED Entered STN: 20000113  
Last Updated on STN: 20000113  
Entered Medline: 19991213

L4 ANSWER 29 OF 29 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN  
AN 1998:417569 SCISEARCH  
GA The Genuine Article (R) Number: ZP868  
TI Occurrence of pyridoxal 5'-phosphate-dependent **serine  
racemase** in silkworm, *Bombyx mori*



AU Uo T; Yoshimura T; Shimizu T; Esaki N (Reprint)  
 CS KYOTO UNIV, INST CHEM RES, UJI, KYOTO 611, JAPAN (Reprint); KYOTO UNIV,  
 INST CHEM RES, UJI, KYOTO 611, JAPAN; KYOTO INST TECHNOL, FAC TEXT SCI,  
 SAKYO KU, KYOTO 606, JAPAN  
 CYA JAPAN  
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (8 MAY 1998) Vol.  
 246, No. 1, pp. 31-34.  
 Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900,  
 SAN DIEGO, CA 92101-4495.  
 ISSN: 0006-291X.  
 DT Article; Journal  
 FS LIFE  
 LA English  
 REC Reference Count: 25  
 \*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

=> s 12 not 13

L5 73 L2 NOT L3

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 21 DUP REM L5 (52 DUPLICATES REMOVED)

=> d 1-10

L6 ANSWER 1 OF 21 MEDLINE on STN DUPLICATE 1  
 AN 2003248492 MEDLINE  
 DN 22656949 PubMed ID: 12750462  
 TI D-serine and serine racemase are present in  
 the vertebrate retina and contribute to the physiological activation of  
 NMDA receptors.  
 AU Stevens Eric R; Esguerra Manuel; Kim Paul M; Newman Eric A; Snyder Solomon  
 H; Zahs Kathleen R; Miller Robert F  
 CS Department of Neuroscience, 6-145 Jackson Hall, University of Minnesota,  
 321 Church Street Southeast, Minneapolis 55455, USA.. stev0116@umn.edu  
 NC DA-00074 (NIDA)  
 EY03014 (NEI)  
 MH18501 (NIMH)  
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
 AMERICA, (2003 May 27) 100 (11) 6789-94.  
 Journal code: 7505876. ISSN: 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200307  
 ED Entered STN: 20030529  
 Last Updated on STN: 20030717  
 Entered Medline: 20030716

L6 ANSWER 2 OF 21 MEDLINE on STN DUPLICATE 2  
 AN 2003269582 MEDLINE  
 DN 22680524 PubMed ID: 12796220  
 TI Decreased serum levels of D-serine in patients with schizophrenia:  
 evidence in support of the N-methyl-D-aspartate receptor hypofunction  
 hypothesis of schizophrenia.  
 AU Hashimoto Kenji; Fukushima Takeshi; Shimizu Eiji; Komatsu Naoya; Watanabe  
 Hiroyuki; Shinoda Naoyuki; Nakazato Michiko; Kumakiri Chikara; Okada  
 Shin-ichi; Hasegawa Hisanori; Imai Kazuhiro; Iyo Masaomi  
 CS Department of Psychiatry, Graduate School of Medicine, Chiba University,  
 Japan.. hashimoto@faculty.chiba-u.jp  
 SO ARCHIVES OF GENERAL PSYCHIATRY, (2003 Jun) 60 (6) 572-6.  
 Journal code: 0372435. ISSN: 0003-990X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals



EM 200307  
ED Entered STN: 20030611  
Last Updated on STN: 20030715  
Entered Medline: 20030714

L6 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 2003:254664 HCAPLUS  
TI Topics. D-**serine** and **serine racemase** exist  
in **mammalian** brain  
AU Yoshimura, Toru  
CS Institute for Chemical Research, Kyoto University, Japan  
SO Bitamin (2003), 77(3), 163-164  
CODEN: BTMNA7; ISSN: 0006-386X  
PB Nippon Bitamin Gakkai  
DT Journal  
LA Japanese

L6 ANSWER 4 OF 21 MEDLINE on STN DUPLICATE 3  
AN 2002422435 MEDLINE  
DN 22167098 PubMed ID: 12176074  
TI Neurobiology through the looking-glass: D-serine as a new glial-derived  
transmitter.  
AU Wolosker Herman; Panizzutti Rogerio; De Miranda Joari  
CS Department of Biochemistry, B. Rappaport Faculty of Medicine,  
Technion-Israel Institute of Technology, P.O. Box 9649, Bat Galim, 31096,  
Haifa, Israel.. hwoosker@tx.technion.ac.il  
SO NEUROCHEMISTRY INTERNATIONAL, (2002 Nov) 41 (5) 327-32. Ref: 53  
Journal code: 8006959. ISSN: 0197-0186.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 200211  
ED Entered STN: 20020815  
Last Updated on STN: 20021212  
Entered Medline: 20021114

L6 ANSWER 5 OF 21 MEDLINE on STN DUPLICATE 4  
AN 2002659467 MEDLINE  
DN 22306770 PubMed ID: 12419539  
TI Effect of the intracerebroventricular and systemic administration of  
L-serine on the concentrations of D- and L-serine in several brain areas  
and periphery of **rat**.  
CM Erratum in: Brain Res. 2003 May 30;973(2):308  
AU Hashimoto Atsushi  
CS Department of Pharmacology, School of Medicine, Tokai University, Isehara,  
Kanagawa 259-1193, Japan.. hashimoto@is.icc.u-tokai.ac.jp  
SO BRAIN RESEARCH, (2002 Nov 15) 955 (1-2) 214-20.  
Journal code: 0045503. ISSN: 0006-8993.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200301  
ED Entered STN: 20021107  
Last Updated on STN: 20030202  
Entered Medline: 20030131

L6 ANSWER 6 OF 21 MEDLINE on STN DUPLICATE 5  
AN 2002128489 MEDLINE  
DN 21852742 PubMed ID: 11864625  
TI Glial transport of the neuromodulator D-serine.  
AU Ribeiro Catia S; Reis Marcelo; Panizzutti Rogerio; de Miranda Joari;  
Wolosker Herman  
CS Department of Biochemistry, Federal University of Rio de Janeiro, Rio de  
Janeiro 21491-590, Brazil.



SO BRAIN RESEARCH, (2002 Mar 929 (2) 202-9.  
Journal code: 0045503. ISSN: 0006-8993.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200309  
ED Entered STN: 20020227  
Last Updated on STN: 20021211  
Entered Medline: 20030922

L6 ANSWER 7 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:374726 BIOSIS  
DN PREV200200374726  
TI Function of the transmembrane domain of VanT **serine**  
**racemase** from vancomycin-resistant Enterococcus gallinarum BM4174.  
AU Arias, C. A. (1); Pena, J. (1); Reynolds, P. E.  
CS (1) Bacterial Molecular Genetics Unit, Centro de Investigaciones,  
Universidad El Bosque, Bogota, D.C. Colombia  
SO International Journal of Antimicrobial Agents, (2002) Vol. 19, No.  
Supplement 1, pp. S4. <http://www.elsevier.com/locate/ijantimicag>. print.  
Meeting Info.: 4th European Congress of Chemotherapy and Infection Paris,  
France May 04-07, 2002  
ISSN: 0924-8579.  
DT Conference  
LA English

L6 ANSWER 8 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 6  
AN 2003:381132 BIOSIS  
DN PREV200300381132  
TI HIPPOCAMPAL FORMATION **SERINE RACEMASE** EXPRESSION  
FOLLOWING CHRONIC HALOPERIDOL IN A **RAT** MODEL FOR TARDIVE  
DYSKINESIA.  
AU Sukontarak, S. J. (1); Aravagiri, M.; Kinkead, B.; Bachus, S. E. (1)  
CS (1) Psychology, St. Mary's College, St. Mary's City, MD, USA USA  
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002)  
Vol. 2002, pp. Abstract No. 895.8. <http://sfn.scholarone.com>. cd-rom.  
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience  
Orlando, Florida, USA November 02-07, 2002 Society for Neuroscience  
DT Conference  
LA English

L6 ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 7  
AN 2001:137024 HCAPLUS  
DN 134:157584  
TI Partial agonists at the glycine modulatory site of the NMDA receptor for  
treating cognitive dysfunction  
IN Schneider, Jay S.  
PA Thomas Jefferson University, USA  
SO PCT Int. Appl., 20 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012190	A1	20010222	WO 2000-US22438	20000816
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			



US 6551993 B1 20000222 US 2000-639611 20000005  
PRAI US 1999-149082P P 19990816  
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2001:492051 BIOSIS  
DN PREV200100492051  
TI Measurement of D-serine production in cells overexpressing **serine  
racemase**.  
AU Tiffany, C. W. (1); Rojas, C. (1); Slusher, B. S. (1)  
CS (1) Guilford Pharmceut, Baltimore, MD USA  
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 674. print.  
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience San  
Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295.  
DT Conference  
LA English  
SL English

=> d 11-21

L6 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:315890 HCAPLUS  
DN 137:57902  
TI Comparative study of L-serine and D-serine immunoreactivities in the  
**rat** brain  
AU Yasuda, Etsuko; Ma, Ning; Semba, Reiji  
CS The 2nd Department of Anatomy, Mie University School of Medicine, Mie,  
514-0001, Japan  
SO Mie Medical Journal (2001), Volume Date 2000-2001, 50, 51(1-3), 51-54  
CODEN: MMJJAI; ISSN: 0026-3532  
PB Mie University School of Medicine  
DT Journal  
LA English  
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 21 MEDLINE on STN DUPLICATE 8  
AN 2000243797 MEDLINE  
DN 20243797 PubMed ID: 10781100  
TI D-serine is an endogenous ligand for the glycine site of the  
N-methyl-D-aspartate receptor.  
AU Mothet J P; Parent A T; Wolosker H; Brady R O Jr; Linden D J; Ferris C D;  
Rogawski M A; Snyder S H  
CS Departments of Neuroscience, Pharmacology and Molecular Sciences and  
Psychiatry, Johns Hopkins University School of Medicine, 725 North Wolfe  
Street, Baltimore, MD 21205-21185, USA.  
NC DA00074 (NIDA)  
MH-18501 (NIMH)  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (2000 Apr 25) 97 (9) 4926-31.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200005  
ED Entered STN: 20000606  
Last Updated on STN: 20000606  
Entered Medline: 20000524

L6 ANSWER 13 OF 21 Elsevier BIOBASE COPYRIGHT 2003 Elsevier Science B.V.  
on STN DUPLICATE  
AN 2000199323 ESBIOBASE  
TI D-serine as a modulator in the nervous system  
AU Hucho F.



CS Dr. F. Hucho, Institut für Chemie, Arbeitsgruppe Neuroche Freie  
 Universität Berlin, Thielallee 63, 14195 Berlin, Germany.  
 E-mail: hucho@chemie.fu-berlin.de

SO Angewandte Chemie - International Edition, (18 AUG 2000), 39/16  
 (2849-2850)  
 CODEN: ACIEAY ISSN: 1433-7851

DT Journal; General Review  
 CY Germany, Federal Republic of  
 LA English  
 SL English

L6 ANSWER 14 OF 21 MEDLINE on STN DUPLICATE 10  
 AN 2001034118 MEDLINE  
 DN 20513870 PubMed ID: 11058466  
 TI Novel neurotransmitters and their neuropsychiatric relevance.  
 AU Snyder S H; Ferris C D  
 CS Department of Neuroscience, Johns Hopkins University School of Medicine,  
 Baltimore, MD 21205-2185, USA.. ssnyder@jhmi.edu  
 NC DA-00074 (NIDA)  
 DA-00266 (NIDA)  
 MH-18501 (NIMH)  
 SO AMERICAN JOURNAL OF PSYCHIATRY, (2000 Nov) 157 (11) 1738-51. Ref: 136  
 Journal code: 0370512. ISSN: 0002-953X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Abridged Index Medicus Journals; Priority Journals  
 EM 200011  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20001130

L6 ANSWER 15 OF 21 MEDLINE on STN DUPLICATE 11  
 AN 2001056963 MEDLINE  
 DN 20361550 PubMed ID: 10905615  
 TI D-amino acids as putative neurotransmitters: focus on D-serine.  
 AU Snyder S H; Kim P M  
 CS The Johns Hopkins University, School of Medicine Department of  
 Neuroscience, Baltimore, MD 21205, USA.  
 NC DA00074 (NIDA)  
 MH18501 (NIMH)  
 T32GM07626 (NIGMS)  
 SO NEUROCHEMICAL RESEARCH, (2000 May) 25 (5) 553-60. Ref: 40  
 Journal code: 7613461. ISSN: 0364-3190.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, TUTORIAL)  
 LA English  
 FS Priority Journals  
 EM 200012  
 ED Entered STN: 20010322  
 Last Updated on STN: 20010322  
 Entered Medline: 20001220

L6 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2000:447246 HCAPLUS  
 DN 133:144979  
 TI D-amino acids as putative neurotransmitters: focus on D-serine  
 AU Snyder, Solomon H.; Kim, Paul M.  
 CS School of Medicine Departments of Neuroscience, Pharmacology and Molecular  
 Sciences and Psychiatry, The Johns Hopkins University, Baltimore, MD,  
 21205, USA  
 SO Neurochemical Research (2000), 25(5), 553  
 CODEN: NEREDZ; ISSN: 0364-3190  
 PB Kluwer Academic/Plenum Publishers



DT Journal; General Review  
LA English

L6 ANSWER 17 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2000:160917 BIOSIS  
DN PREV200000160917  
TI D-serine, an endogenous modulator of NMDA receptors.  
AU Wolosker, Herman (1)  
CS (1) Depto de Bioquimica, ICB/CCS, Universidade Federal do Rio de Janeiro,  
Rio de Janeiro, RJ, 21941-590 Brazil  
SO Journal of Neurochemistry., (2000) Vol. 74, No. Suppl., pp. S44.  
Meeting Info.: American Society for Neurochemistry 31st Annual Meeting.  
Chicago, IL, USA March 26-29, 2000  
ISSN: 0022-3042.

DT Conference  
LA English  
SL English

L6 ANSWER 18 OF 21 MEDLINE on STN DUPLICATE 12  
AN 2000455823 MEDLINE  
DN 20348498 PubMed ID: 10890022  
TI Endogenous D-serine in **mammalian** brains.  
AU Nishikawa T; Yamamoto N; Tsuchida H; Umino A; Kawaguchi N  
CS Department of Psychiatry and Behavioral Sciences, Tokyo Medical and Dental  
University, School of Medicine, Japan.  
SO NIHON SHINKEI SEISHIN YAKURIGAKU ZASSHI, (2000 Feb) 20 (1) 33-9. Ref: 48  
Journal code: 9509023. ISSN: 1340-2544.  
CY Japan  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA Japanese  
FS Priority Journals  
EM 200009  
ED Entered STN: 20001005  
Last Updated on STN: 20001005  
Entered Medline: 20000926

L6 ANSWER 19 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2001:108925 BIOSIS  
DN PREV200100108925  
TI **Serine racemase** knockout and transgenic **mice**  
Kim, P. M. (1); Saiardi, A.; Snyder, S. H.  
CS (1) Johns Hopkins University, School of Medicine, Baltimore, MD USA  
SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract  
No.-619.16. print.  
Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New  
Orleans, LA, USA November 04-09, 2000 Society for Neuroscience  
. ISSN: 0190-5295.

DT Conference  
LA English  
SL English

L6 ANSWER 20 OF 21 MEDLINE on STN DUPLICATE 13  
AN 1999110957 MEDLINE  
DN 99110957 PubMed ID: 9892700  
TI Purification of **serine racemase**: biosynthesis of the  
neuromodulator D-serine.  
AU Wolosker H; Sheth K N; Takahashi M; Mothet J P; Brady R O Jr; Ferris C D;  
Snyder S H  
CS The Johns Hopkins University, School of Medicine, Departments of  
Neuroscience, Pharmacology and Molecular Sciences, and Psychiatry, 725  
North Wolfe Street, Baltimore, MD 21205, USA.  
NC DA00074 (NIDA)  
MH-18501 (NIMH)  
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF  
AMERICA, (1999 Jan 19) 96 (2) 721-5.



Journal code: 7505876. IS 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199903  
 ED Entered STN: 19990326  
 Last Updated on STN: 19990326  
 Entered Medline: 19990316

L6 ANSWER 21 OF 21 MEDLINE on STN DUPLICATE 14  
 AN 1998262912 MEDLINE  
 DN 98262912 PubMed ID: 9600063  
 TI Occurrence of pyridoxal 5'-phosphate-dependent **serine**  
**racemase** in silkworm, Bombyx mori.  
 AU Uo T; Yoshimura T; Shimizu S; Esaki N  
 CS Institute for Chemical Research, Kyoto University, Japan.  
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1998 May 8) 246 (1)  
 31-4.  
 Journal code: 0372516. ISSN: 0006-291X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199806  
 ED Entered STN: 19980625  
 Last Updated on STN: 19980625  
 Entered Medline: 19980616

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(FILE 'HOME' ENTERED AT 12:24:47 ON 30 SEP 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 12:24:54 ON 30 SEP 2003

L1 312 S SERINE (2W) RACEMASE  
 L2 154 S L1 AND (MAMMAL? OR RAT OR MOUSE OR MURINE OR HUMAN)  
 L3 81 S L2 AND (DNA OR NUCLE? OR RECOMBINANT OR GENE?)  
 L4 29 DUP REM L3 (52 DUPLICATES REMOVED)  
 L5 73 S L2 NOT L3  
 L6 21 DUP REM L5 (52 DUPLICATES REMOVED)

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	ENTRY	SESSION
FULL ESTIMATED COST	82.24	82.45

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